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Saxon XQuery and XSLT Processor API - Tokenizer

static int, QMARK "?" symbol. static int, RCURLY "}" symbol (XQuery only). boolean, recognizePragmas ... QMARK. public static final int QMARK. "?" symbol ...

www.stylusstudio.com/api/saxon8/net/sf/saxon/expr/Tokenizer.htm - 88k - [Cached](#) - [Similar pages](#)

Saxon XQuery and XSLT Processor API - Constant Field Values

public static final int, QMARK, 113. public static final int, RCURLY, 115. public static final int ... String, XSLT, "http://www.w3.org/1999/XSL/Transform" ...

www.stylusstudio.com/api/saxon8/constant-values.htm - 304k - [Cached](#) - [Similar pages](#)

Package oracle.xml.parser.v2

Table 11-4 Summary of XSLT Processor Classes in package oracle.xml.parserv2 ...

QMARK. public static final int QMARK. ContentModelParseTreeNode type - "?" ...

www.cs.umb.edu/cs634/ora9idocs/appdev.920/a96609/arj_xmlparserv2.htm - 513k - [Cached](#) - [Similar pages](#)

Oracle XML Parser - Readme

Version 2 of the XML Parser for Java, besides incorporating an XSLT processor, ... QMARK, na, Implemented in v2.0.1 for tokenizer feature ...

https://wwwforms.murdoch.edu.au/xsql/java/parser/readme.html - 30k - Oct 26, 2005 - [Cached](#) - [Similar pages](#)

Oracle XML Parser - Readme

Note that there are several changes between April99 XSLT draft and the August99 XSLT/Xpath ... The Node types are: PLUS, COMMA, ASTERISK, ELEMENT, QMARK). ...

https://ereg.bir.gov.ph/xdk/java/parser/readme.html - 38k - Oct 26, 2005 - [Cached](#) - [Similar pages](#)

[PS] Automating the Transformation of XML Documents Hong SuComputer ...

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The operation sequence then is used to generate an equivalent XSLT ... called qmark quantifier node). A tree rooted at a node of element type T is called T ...

www.cs.wpi.edu/~suhong/research/PAPERS/xtra.ps - [Similar pages](#)

Re: [DB-SIG] Re: module name :: ASPN Mail Archive :: db-sig

ActiveState Open Source Programming tools for Perl Python XML xslt ... Also note that I used the 'qmark' paramstyle even though pycpg uses 'pyformat'. ...

aspn.activestate.com/ASPN/Mail/Message/db-sig/2169978 - 20k - [Cached](#) - [Similar pages](#)

Re: [DB-SIG] Table Oriented Programming :: ASPN Mail Archive :: db-sig

ActiveState Open Source Programming tools for Perl Python XML xslt scripting ...

With module.paramstyle = "qmark", you can do something like this: query2 ...

aspn.activestate.com/ASPN/Mail/Message/db-sig/2478147 - 23k - [Cached](#) - [Similar pages](#)

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From raymond at caret.cam.ac.uk Tue Mar 4 12:12:42 2003 From ...

John John Kleeman MA MBCS C.Eng (john.kleeman@qmark.co.uk) Questionmark chairman

... you have the option of using any one of a number of technologies (XSLT, ...

lists.uct.ac.za/public/ims-qti/2003-March.txt - 129k - [Cached](#) - [Similar pages](#)

Hong Su



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I am a Ph.D. candidate in the Department of Computer Science at Worcester Polytechnic Institute, Worcester, Massachusetts. I am interested in research and development issues related to data and information management systems, including (1) XML based web data management (2) web publish/subscribe systems (3) continuous queries and (4) translation technology across heterogeneous data sources. My supervisor is Professor Elke A. Rundensteiner.

[\[Research Experience\]](#) [\[Intern Experience\]](#) [\[Publications\]](#) [\[Useful Links\]](#)

Research Experience:

- **XML stream based web publishing and subscription system**
- **XTra: XML Document Automatic Translation** XTra is a prototype system discovering the mappings between two DTDs and translating an XML document conforming to the source DTD to an XML document in the format of target DTD. We model DTD as ordered trees. We propose a set of transformation operations and define a cost model. By discovering a sequence of the operations that transform the source DTD tree to target DTD tree, two DTDs are associated with each other. And then according to the DTD transformation, we perform corresponding data transformation (XSLT) on the source XML document to achieve the XML document transformation.
- **XEM: XML Evolution Management** XEM is a middle-layer tool providing flexible support for both DTD and XML data evolution. We implemented a prototype that provides a set of valid, sound and complete DTD and XML evolution two DTDs primitives. And we provide mechanisms to do constraint checking to ensure the structural consistency that the XML data always conforms to DTD. Also, we provide the user the flexibility to a describe arbitrary transformations by composing primitives via an XML query language. We use PSE Pro, a OODB product by Excelon Inc to serve as the underlying data storage system.
- **Re-Web -- OODB-XML Data Mapping and Its Applications in E-Commerce** Re-Web is a web site management tool focusing on the issue of reusable view generation templates at the content level. Exploiting the modeling power of the OO model, as part of

our approach we have defined web semantics that allow us to map between the XML/HTML constructs and the ODMG object model constructs. We use these to do both the translation of the web to the database as well as the generation of the web pages from the database. At the database level we use a flexible and extensible re-structuring facility, SERF, to support complex re-structuring, information integration, and the creation of new view schemas.

Intern and Co-op Experience:

- **IBM Toronto Laboratory**, Toronto, Canada, IBM Cooperative Fellowship Recipient for year 2002-2003.

IBM Cooperative Fellowship Student Summer Intern in IBM DB2 Query Rewrite Development Team.

Jun. 2002 - Aug. 2002

Activities include investigating using XML Automatic Summary Tables (XML-ASTs) to answer the incoming XQueries on the virtual XML views of relational tables.

- **IBM Toronto Laboratory**, Toronto, Canada, IBM Cooperative Fellowship Recipient for year 2001-2002.

IBM Cooperative Fellowship Student Summer Intern in IBM DB2 Universal Database Performance and Advanced Technology Team.

Jun. 2001 - Aug. 2002

Activities include cooperating with DB2 Performance and DB2 XML Extender team in exploring the performance bottleneck of decomposing XML documents into DB2. We analyze specific user cases and report the bugs in XML Extender to XML Extender team. In order to handle the constraint violation during the decomposition of XML documents into relational tuples as well as to improve the decomposition performance, we have proposed an approach that (1) utilizes LOAD, a DB2 data movement utility which is capable of efficiently moving large quantities of data into tables much faster than regular SQL INSERT as current Extender does; (2) provides options for handling constraint violation checking which both ensures a valid state of the relational tables storing decomposed XML documents and gives users the flexibility to handle errors.

- **HP Laboratories**, Palo Alto, California

Seed Research Intern (Grass Roots Breakthrough Program) in Software Lab.

Sep. 2000 - Mar. 2001

Research activities include survey on topics on general schema mapping, translation and investigation of automatic mapping and translation between e-business XML documents conforming to different DTDs. We also implemented a prototype system, XTra, to discover the mappings between two DTD models and then translates XML documents in source DTD format to target DTD format. We have filed two patents on this work, i.e., "Method and System for Discovery of Transformation Operations between two Extensible Markup Language (XML) Schemas" and "Method and System for Extensible Markup Language (XML) Schemas".

- **IBM T.J. Watson Research Center**, Hawthorne, New York

Summer Intern in Parallel Database Department.

May. 2000 - Aug. 2000

Activities include doing survey on topics related to publishing XML-format data from underlying data sources that retail non-XML format data, understanding XML Access Server prototype that has been built for managing componentized, virtual XML documents, demonstrated the core module of XAS system - DTD source Annotation framework (DTDSA) on IBM Expo2000 in July, studying the issues of schema integration when using XAS system to store XML documents conforming to slightly different DTDs.

Publications (see also the DSRG-List):

Conference Papers:

- Su, H., Rundensteiner, E. and Mani, M.
"Semantic Query Optimization on XQuery over XML Streams " ([.pdf](#))
VLDB, Trondheim, Norway, Aug. 2005
- Su, H., Rundensteiner, E. and Mani, M.
"Raindrop: An XQuery Engine Over XML Streams - on Semantic Query Optimization " ,
([.pdf](#))
VLDB Demo, Toronto, ON, Canada, Sep. 2004
- Su, H., Jian, J. and Rundensteiner, E.
"RAINDROP: A Uniform and Layered Algebraic Framework for XQueries on XMLStreams",
Twelfth International Conference on Information and Knowledge Management CIKM 2003, New Orleans, LA, Nov. 2003 ([.pdf](#))
- Jian, J., Su, H. and Rundensteiner, E.
"Automaton Meets Query Algebra: Towards A Unified Model for XQuery Evaluation over XML Data Streams" (Best Paper Nominee),
22nd International Conference on Conceptual Modeling (ER), Chicago, IL, Oct. 2003 ([.pdf](#))
- Kane, B., Su, H. and Rundensteiner, E.
"Consistently Updating XML Documents Using Incremental Constraint Check Queries",
4th International workshop on web information and data management (WIDM'02),
McLean, Virginia, Nov. 2002
- Su, H., Kane, B., Chen, C., Diep, Cuong., Guan, D., Look, J. and Rundensteiner, E.
"A lightweight Constraint Check Framework for Consistently Updating XML Documents",
2nd International Workshop on Evolution and Change in Data Management (ECDM'02),
Tampere, Finland, Oct. 2002
- Su, H., Kuno, H. and Rundensteiner E.
"Automating the translation of XML documents"
3rd international workshop on web information and data management (WIDM'01),
Atlanta, Georgia, Nov. 2001 ([.ps](#))

- Su, H., Padmanabhan, S. and Lo, M-L.
"Identification of Syntactically Similar DTD Elements for Schema Matching"
The Second International Conference on Web-Age Information Management (WAIM'2001), Xi'an, China, July. 2001. ([.ps](#))
- Claypool, K, Rundensteiner, E. A., Zhang, X., Su, H., Kuno, H., Li, W-C. and Mitchell, G.
"Model Management - A solution to Support Multiple Data Models, Their Mappings and Maintenance"
ACM SIGMOD'01 Industrial Demo, Santa Barbara, California, May. 2001. ([.ps](#))
- Su, H., Kramer, D., Chen L., Claypool, K. and Rundensteiner, E. A.
"XEM: Managing the evolution of XML Documents"
Eleventh International Workshop on Research Issues in Data Engineering (RIDE 2001), Heidelberg, Germany, April 1-2, 2001, ([.ps](#))
- Rundensteiner, E. A., Claypool, K. T., Chen, L., Su, H. and Oenoki, K.
"SERFing the Web: Web-Site Management Made Easy"
SIGMOD 2000, Software system demonstration paper, Dallas, Texas, USA, May 2000, pp. 585. ([.ps](#))
- Su, H., Claypool, K. and Rundensteiner, E. A.
"Extending the Object Query Language for Transparent Metadata Access",
Ninth International Workshop on Foundations of Models and languages for Data and Objects (DEMM'00), Schloss Dagstuhl, Germany, Oct. 2000. ([.ps](#))

Demos:

- Su, H., Kuno, H. and Rundensteiner, E. A.
"XEM",
Poster and System Demo, IBM Center for Advanced Studies Conferenc (CASCON'00), Toronto, Canada, Nov. 2000
- Su, H., Kuno, H. and Rundensteiner, E. A.
"XTra: Automating E-Service XML Document Translation",
Poster and System Demo, IBM Center for Advanced Studies Conferenc (CASCON'01), Toronto, Canada, Nov. 2001

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The operation sequence then is used to generate an equivalent **XSLT** transformation script. ... [15] H. **Su**, H. **Kuno**, and EA **Rundensteiner**. Automating ...

www.cs.wpi.edu/~suhong/research/PAPERS/xtra.ps - [Similar pages](#)

[PDF] [Automating Transformation of Automating Transformation of XML ...](#)

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XML Documents. Hong **Su***, Harumi **Kuno****,. Elke A. **Rundensteiner*** ... **Fold** (<T1, T2, ..., Ti>, T). Split (n, <n1, n2>). Relabel (n, l, l'). Delete (T) ...

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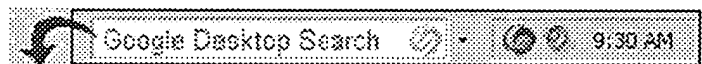
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 Hongjun Lu, Jeffrey Xu Yu, Guoren Wang, Shihui Zheng, Haifeng Jiang, Ge Yu, Aoying Zhou
February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(589.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is emerging as a major standard for representing data on the World Wide Web. Recently, many XML storage models have been proposed to manage XML data. In order to assess an XML database's abilities to deal with XML queries, several benchmarks have also been proposed, including XMark and XMach. However, no reported studies using those benchmarks were found that can provide users with insights on the impacts of a variety of storage models on XML query performance. In this article, we report our ...

Keywords: XML query processing, XML storage model, benchmark42 [Accelerating XPath evaluation in any RDBMS](#)
 Torsten Grust, Maurice Van Keulen, Jens Teubner
March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(781.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article is a proposal for a database index structure, the *XPath accelerator*, that has been specifically designed to support the evaluation of XPath path expressions. As such, the index is capable to support *all* XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, etc.). This feature lets the index stand out among related work on XML indexing structures which had a focus on the child and descendant axes only. The index has been designed with a close ...

Keywords: Main-memory databases, XML, XML indexing, XPath43 [Human-computer interaction: A visual approach to define XML to FO transformations](#)
 Gerardo Canfora, Luigi Cerulo
July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available: pdf(307.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


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1 [Static analysis of XSLT programs](#)

Ce Dong, James Bailey

 January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27 CRPIT '04**

Publisher: Australian Computer Society, Inc.

 Full text available: [pdf\(370.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

XML is becoming the dominant standard for representing and exchanging data on the World Wide Web. The ability to transform and present data in XML is crucial and XSLT (Extensible Stylesheet Language Transformations) is the principal programming language that supports this activity. Methods for analysis of XSLT programs are currently an important open issue. In this paper, we discuss new methods for analysing XSLT programs, which return information about *reachability*, *invalid calling relations* ...

Keywords: XML, XSLT, termination analysis

2 [Session 4: Behavior3D: an XML-based framework for 3D graphics behavior](#)



Raimund Dachsett, Enrico Rukzio

 March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Publisher: ACM Press

 Full text available: [pdf\(3.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Success of 3D applications on the Web inherently depends on object behavior and interaction. Current Web3D formats often fall short in supporting behavior modeling. This paper introduces a flexible concept for declaratively modeling 3D object behaviors. Based on Extensible 3D (X3D) a node concept is suggested with object-oriented features such as inheritance, strong typing, and polymorphism. An XML-based language *Behavior3DNode* serves the interface definition of new nodes. Their implement ...

Keywords: Contigra, Extensible 3D (X3D), SMIL, XML-Schema, animation, behavior language, dynamic grammar, object behaviors

3 [XML query and programming languages: Sub-document queries over XML with XSQirrel](#)



Arnaud Sahuguet, Bogdan Alexe

 May 2005 **Proceedings of the 14th international conference on World Wide Web**


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1 [Document querying and transformation: A three-way merge for XML documents](#)



Tancred Lindholm

 October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Publisher: ACM Press

 Full text available: [pdf\(500.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Three-way merging is a technique that may be employed for reintegrating changes to a document in cases where multiple independently modified copies have been made. While tools for three-way merge of ASCII text files exist in the form of the ubiquitous diff and patch tools these are of limited applicability to XML documents.

We present a method for three-way merging of XML which is targeted at merging XML formats that model human-authored documents as ordered trees (e.g. rich text forma ...

Keywords: XML, collaborative editing, conflict, structured text, three-way merge

2 [Research session: data warehousing and archive: Archiving scientific data](#)



Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

 June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

 Full text available: [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an archiving technique for hierarchical data with key structure. Our approach is based on the notion of timestamps whereby an element appearing in multiple versions of the database is stored only once along with a compact description of versions in which it appears. The basic idea of timestamping was discovered by Driscoll *et. al.* in the context of persistent data structures where one wishes to track the sequences of changes made to a data structure. We extend this idea to deve ...

3 [XML retrieval: Configurable indexing and ranking for XML information retrieval](#)



Shaorong Liu, Qinghua Zou, Wesley W. Chu

 July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Publisher: ACM Press

 Full text available: Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



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101 [Paper session 4: XML query processing: Twig query processing over graph-structured XML data](#)



Zografoula Vagena, Mirella M. Moro, Vassilis J. Tsotras

 June 2004 **Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004 WebDB '04**

Publisher: ACM Press

Full text available: [pdf\(522.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML and semi-structured data is usually modeled using graph structures. *Structural summaries*, which have been proposed to speedup XML query processing have graph forms as well. The existent approaches for evaluating queries over tree structured data (i.e. data whose underlying structure is a tree) are not directly applicable when the data is modeled as a random graph. Moreover, they cannot be applied when *structural summaries* are employed and, to the best of our knowledge, no analo ...

102 [Research session: XML query processing #2: FiST: scalable XML document filtering by sequencing twig patterns](#)

Joonho Kwon, Praveen Rao, Bongki Moon, Sukho Lee

 August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: [pdf\(359.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, publish-subscribe (pub-sub) systems based on XML document filtering have received much attention. In a typical pub-sub system, subscribed users specify their interest in profiles expressed in the XPath language, and each new content is matched against the user profiles so that the content is delivered to only the interested subscribers. As the number of subscribed users and their profiles can grow very large, the scalability of the system is critical to the success of pub-sub se ...

103 [Extending Java for high-level Web service construction](#)



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

 November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: [pdf\(947.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide